# **EXHIBIT 2**

<del>Filed 01/13/23 Page 3 of 32 PageID #: 17651</del> 107 Case 2:21-cv-00310-JRG Document 385-2 1 deinterleave the downstream data. 1 Yet, after the inventions were made by the 2 2 They'll also ask you to ignore the portion of inventors, the inventions were widely adopted, including by 3 the message that I just showed you clearly say 3 all 2Wire devices that practiced the DSL standard. 2Wire 4 4 max\_delay\_octet, not min, max. argues that these inventions were obvious to someone, to an 5 Instead they're going to point you to a 5 ordinary person of skill in the art. What we'll find is 6 6 different part of the standard that's about 160 pages this is classic hindsight. 7 7 earlier in the standard that says the amount of memory Instead of acknowledging that these 8 8 actually used as the interleaver and deinterleaver memory inventions were a great idea that they wished they had 9 9 might not be all the memory that is used by a particular thought of themselves, their story is that anyone could have 10 10 transceiver implementation. A particular transceiver thought that. But they didn't. Only the inventors did. 11 11 implementation might use some of the memory for peripheral After Mr. Tzannes patent provided a 12 functions. So we got a block of memory that a particular 12 roadmap for 2Wire; however, it's pretty easy for them to 13 13 implementation might decide to use some pieces of that for find bits and pieces in the prior art and then try to 14 14 something peripheral. reassemble to look like the patented inventions. But in the 15 15 But Dr. Cooklev will expose 2Wire's real world, we'll find that the prior art went exactly the 16 16 misdirection. He'll explain that the memory used for the opposite direction and away from the patented inventions. 17 storage of the peripheral information is not interleaver and 17 2Wire relies on an earlier patent to 18 18 deinterleaver memory. It's not the interleaver and an inventor named Mazzoni. They also rely on a proposal 19 19 made to the DSL Standard Committee to inclusion of a DSL deinterleaver memory itself. It's not used to store RS 20 20 coded data bytes. Remember, that fundamental function of an standard. The number of that proposal that you'll hear is 21 21 interleaver and deinterleaver is storing RS coded data LB-031. 22 22 bytes. I will ask you to note the dates of 23 So what are some of these peripheral functions 23 the Mazzoni reference and the LB-031 reference. And what 24 24 that they will want you to learn about? So the peripheral you will find is the following: 25 25 functions might be a pointer system for keeping track of Mazzoni was published in January 2002. 1 where your RS coded data bytes are stored. That peripheral 1 It had a form of shared memory, but the relative amounts of Mazzoni's shared memory were set, or they were frozen upon 2 information doesn't have to be stored in the same memory 3 3 block, but when it is, it takes up a little bit of space. installation. They were literally placed in by a technician 4 In any event, that's what they're talking about when they 4 and frozen. There was no message sent between the CO and CPE 5 say that the minimum amount of memory is what's specified in 5 to coordinate memory sharing. Mazzoni's frozen memory could 6 6 the message. It's a minimum amount of memory, but it's not not be reconfigured or reallocated by any messages. So 7 7 Mazzoni failed to provide the claimed invention. the minimum amount of interleaver and deinterleaver memory. 8 8 The minimum amount of interleaver and deinterleaver memory The next item of prior art is the 9 is the memory that's used to store Reed Solomon coded in the 9 LB-031 reference. You'll find that this proposal was made 10 10 device. Thus, 2Wire's argument about a maximum actually in June of 2004, two-and-a-half years after Mazzoni. In 11 11 being a minimum is wrong those two-and-a-half years, though, apparently no one other 12 12 Now, I want to turn for a moment to the issue of than Mazzoni thought that using frozen memory was a good 13 13 validity. So 2Wire says that even if it infringes, no idea for any DSL products or any DSL standards. And when 14 problem because the patents never should have been issued. 14 the LB-031 proposal was made in 2004, it went the opposite 15 15 They want you to believe that the experts at the Patent direction. It proposed using messages that were entirely 16 Office made a mistake each and every time they allowed the 16 incompatible with the use of Mazzoni. 17 17 three separate patents-in-suit. What you will find is the Not only did LB-031 not disclose the 18 18 following, even after 2Wire provides its evidence. Never use of shared memory, the messages it uses actually prevent 19 before the inventions of the patents-in-suit did anyone 19 the use of shared memory. Only separate, dedicated memories 20 20 make, use or sell a device or even describe or propose a could be used for the interleaver and deinterleaver of 21 21 device having the invention set forth in the three patents. LB-031. Evidently, the authors of LB-031 understood the 22 22 drawbacks of Mazzoni's frozen memory technique and decided Never before the inventions of these patents did anyone make 23 23 or describe a device that used a memory sharing message to use dedicated memory. 24 during initialization to coordinate a memory sharing between 24 Worst yet, the evidence will show that an interleaver and deinterleaver. 25 25 if one tried to use LB-031 with Mazzoni to try to

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that's one way to think about interleaving and 2 deinterleaving. You need memory to store the data while you're scrambling it, and then you need memory on the other end to store the data while you're unscrambling it.

And as Mr. McAndrews said, the data flows in both directions. You can upload things from your home through your modem, photos, videos. You can also download. So, therefore, the modem has both interleaver memory and deinterleaver memory in it.

You can implement that in two ways. You can have these separate memories, one for the interleaver, one for the deinterleaver, or you can have this shared memory. It's capable of doing both.

Now, even though TQ Delta's patents talk about shared memory for the interleaver and the deinterleaver functions, the evidence will clearly show that TQ Delta did not invent shared memory for interleaver and deinterleaver functions. Shared memory for those functions was out there in the prior art, a term you've heard used in the video and already here today. It was out there in the industry before TQ Delta's patents were filed.

Instead, TQ Delta's patents are much narrower than shared memory. They all deal with a very specific way to divide up that shared memory so that a portion of it is used for the interleaver and a portion of it is used for the

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deinterleaver.

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All three of TQ Delta's patents, and you heard Mr. McAndrews say, they're very similar. They all have the same specification using another term from the patent video. All three of TQ Delta's patents talk about dividing up that shared memory in response to a very specific message. You're going to hear the language a lot during this trial. It's a mouthful.

The message has to specify a maximum number of bytes of memory available to be allocated either to the interleaver or the deinterleaver function.

A simple way to think about it, the way I think about dividing up shared memory in response to a specific message is a pizza. Let's say I'm coming home late from work one night, and I call my wife, and I ask her to please save me two slices of pizza. With any luck, she allocates two slices of pizza for me. It's simplistic, but that's one way to think about dividing up shared memory in response to a specific message. I ask for two slices, I get two slices.

Now, let me cut right to the chase about what you're going to hear during this trial. First, you're going to hear evidence establishing that 2Wire's modems do not use the specific approach for dividing up shared memory described in all three of TQ Delta's patents.

As you heard in the patent video, the most

1 important part of a patent are the patent claims. The

2 claims are what describe the extent of TQ Delta's property

3 rights. And the TQ Delta patents that we're going to be

4 talking about this week, as I've already said once, all

5 require a very specific message, a message specifying the

6 maximum number of bytes of memory available to be allocated

7 to either the interleaver or the deinterleaver.

These are all three of the TQ Delta patent claims side by side. And this is the element of those claims that I'm focusing on at the moment. It says transmitting or receiving. And we'll focus on the receiving part.

Receiving a message during initialization specifying a maximum number of bytes of memory that are available to be allocated, in the case of the '048, to the interleaver. In the case of the other two patents, the claim talks about specifying the maximum number of bytes of memory that are available to be allocated to the deinterleaver.

To prove patent infringement in this case, TQ Delta must prove that each of my client's accused DSL modems receive a message during initialization specifying a maximum number of bytes of memory available to be allocated. Not just any message, but a message that specifies that. The evidence in this case will show that these products do not

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receive that specific message. TQ Delta also must prove

that each of the other elements of each of these claims are

3 met by the 2Wire modems in order to prove infringement. And

I won't go into the details now, but the evidence that

5 you're going to hear this week during this trial will show

6 that they also don't perform many of the other steps of each

7 of these claims.

> Determining an amount of memory for the interleaver or deinterleaver, and allocating a first number of bytes. And I won't read all the language there, but you will hear evidence during this trial that 2Wire's products do not meet more than just one of the requirements of each of these patents.

The next thing the evidence will show is that all of the 2Wire DSL modems accused of patent infringement, they all use DSL chips from a company called Broadcom Corporation. Inside this black box is a little chip. That's where the DSL functionality happens.

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And those chips are all supplied to my client, 2Wire, by Broadcom. Broadcom is sending someone to this trial to explain to you just how those chips work, and that evidence will show that the chips don't do what TQ Delta's patents require.

24 Third, the fourth bullet on the slide, as you 25 heard from Mr. McAndrews and as you saw in the patent video,

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burden of proving my client's products infringe these

patents. It is not our job to prove to you that they don't

the opening statement of the reasons why we think the

question of patent infringement, 2Wire retained one of the

evidence show that the those products don't infringe.

infringe, however, I want to give you a road map here during

This is Dr. Krista Jacobsen. To look into this

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to handle that delay.

it was for me, at least, so I'll say it again, the maximum

If you're going to build an apartment building that has a

maximum of a hundred units, you're going to want to have a

minimum of a hundred parking spots, one for each unit. That

delay translates into the minimum amount of memory required

You can think of it like an apartment building.

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1 doesn't mean that you have to have a maximum of a hundred 2 parking spots, you can, and hopefully build more, but a

3 minimum. So the maximum number of units could convey the

- 4 minimum number of parking spots. And that's similar to this
- 5 O-PMS message. The maximum amount of delay conveys the
- 6 minimum amount of memory you need to handle that delay.
- 7 Dr. Jacobsen will explain that in greater detail. We can
- 8 also go back to my pizza analogy. When you call home and
- 9 ask to be saved two slices of pizza, I'm not saying I
- 10 wouldn't enjoy three or maybe four slices of pizza. Again,
  - I'm conveying the minimum, but conveying the minimum does
- 12 not necessarily mean the maximum.

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In short, TQ Delta is going to try to persuade you during this trial that delay really means memory, and that this word max here really, that max really means minimum.

Now, as I mentioned, the accused 2Wire products all include a chip from Broadcom. Those chips use something called source code. Source code is just a fancy term for the written instructions that tell the chip how to operate. And as you know from Mr. McAndrews, TQ Delta hired an expert, Dr. Almeroth to come testify here as to how he thinks that source code operates.

So we decided to ask someone from Broadcom to come here and explain to you how those chips really operate.

His name is Dr. Gong-San Yu coming from California. He is an employee of Broadcom. He's the designer of some of the Broadcom cell chips that are in these products, and he's the head of the division responsible for all the CPE chips that Broadcom sells.

Dr. Yu will testify that Broadcom's DSL modems do not receive a message specifying a maximum number of bytes of memory available to be allocated for either the interleaver or the deinterleaver. He will further explain how those chips actually work. The evidence you will hear will show that the 2Wire products do not infringe any of the three TQ Delta patent claims at issue here.

13 Last but certainly not least, I would like to 14 talk briefly about invalidity. As you heard in the patent 15 video, invalidity is a proper defense to an assertion of 16 patent infringement. Basically, the patent should not have 17 been issued in the first place. You, the jury, are an 18 important part of the checks and balances built into our 19 system. As you saw in the patent video, my client 2Wire did 20 not get to participate in the process that lead to the 21 issuance of these patents. You also heard in the video 22 about the term prior art. Prior art is another term that we 23 patent litigators use, basically it means patents and other 24 printed publications that were known, that were out there in 25 the industry before the time these patents were filed.

1 Here the evidence will show that this prior art

2 that we're going to show you invalidates TQ Delta's patents.

3 As I mentioned earlier, the evidence will clearly show that

4 TQ Delta did not invent this concept of shared memory. One

5 of the pieces of prior art that you will see during this

6 trial is the Mazzoni prior art patent. Mr. McAndrews talked

7 about it a little bit during his opening statement. Mazzoni

8 is the name of the inventor, one of the two inventors on the

9 patent. And this patent discloses using a shared memory for

10 interleaver and deinterleaver functions in a DSL system.

11 Dr. Jacobsen will explain it in more detail. And she will

12 explain her opinion that this patent teaches the shared

13 memory that's in TQ Delta's patent claims.

Now, by challenging the validity of TQ Delta's patents here during this trial, we're not criticizing any of the patent examiners who issued these patents. In fact, as you heard in the patent video, the patent examiners in this case did not even hear about the Mazzoni reference. There is no evidence that the patent examiners knew that this reference existed, this piece of prior art when any of these patents were issued.

22 The patent examiners also did not know about 23 LB-031. You heard Mr. McAndrews refer to this piece of 24 prior art as well. Dr. Jacobsen will explain to you LB-031.

25 LB-031 was a proposal submitted by another company to the

1 same group that developed the VDSL2 standard that produces this O-PMS message that TQ Delta points to in its patent

3 infringement case.

4 And just like the max delay fields from that 5 O-PMS message that you're going to hear a lot about during 6 this trial, LB-031 communicates a message specifying the 7 maximum amount of delay in octet that the other end needs to 8 be able to handle.

This is how the prior art looks in chronological order. Here you have the prior art patent, the Mazzoni, July 18th, 2000. I think Mr. McAndrews said 2001, there is a number of different dates on the patent. All those dates are before the date of TQ Delta's patents.

This is LB-031, the contribution to the standards body that was producing the VDSL2 standard, this piece of prior art dated June 14th, 2004. And then after these two dates the patent applications that lead to TQ Delta's patents were filed in October of 2004. Dr. Jacobsen will testify and will explain to you her expert opinion that LB-031 either alone or together with Mazzoni invalidate the three TQ Delta patent claims that are at issue in this trial.

23 Dr. Jacobsen will also testify regarding another 24 problem with two of TQ Delta's patents. I think 25 Mr. McAndrews referred to as in his opening statement as a

	Ca	<del>ise 2:21-cv-00310-JR</del>	G Document 385-2	File	d 01/13/23 Page 8 of 32 PageID #: 17656
			506	1	MR. MCANDREWS: Ms. Targowska is going to handle
	1	IN THE UNITED STATE	S DISTRICT COURT	2	the first one here.
	2	FOR THE DISTRICT	OF DELAWARE	3	THE COURT: Good morning, Ms. Targowska. Come
	3			4	forward.
	4	TQ DELTA LLC,	)	5	MS. TARGOWSKA: Permission to approach, Your
	5	Plaintiff,	) ) C.A. No. 13-1835-RGA	6	Honor?
	6	v.	)	7	
	7	2WIRE, INC.,	)		THE COURT: Sure.
	8	Defendant.	)	8	MS. TARGOWSKA: The issue is with the
	9 10		J. Caleb Boggs Courthouse	9	demonstratives for Dr. Jacobsen's direct examination. TQ
	11		844 North King Street Wilmington, Delaware	10	Delta is objecting to slides 34 through 58 as an undisclosed
	12		Wednesday, May 22, 2019 8:30 a.m.	11	expert opinion, and also as prejudicial under 403.
	13		Trial Volume III	12	The reason is that every slide within that range
	14	BEFORE: THE HONORABLE RICHARD	G. ANDREWS, U.S.D.C.J.	13	states that the LB031 reference discloses the element of the
	15	APPEARANCES:		14	claim.
	16	FARNAN LLP		15	THE COURT: All right. So I tend to agree with
	17	BY: MICHAEL J. FAR	NAN, ESQUIRE	16	you. You don't have to say anything more that Dr. Yu oh,
	18	-and- MCANDREWS HELD & MA	IIOV IMD	17	wait. This is Ms. Jacobsen. Sorry. Oh, sorry. I
	19	BY: PETER J. MCANDR BY: PAUL W. MCANDR	REWS, ESQUIRE	18	misunderstood what we were doing here.
	20	BY: JAMES MURPHY, BY: THOMAS WIMBISC	ESQUIRE	19	What is the problem here?
	21	-and-		20	MR. TARGOWSKA: Dr. Jacobsen in her slides
	22	ROBINS KAPLAN LLP		21	asserts that every medical element of the claim is disclosed
	23	BY: DAVID A. PRANG BY: BENJAMIN C. LI		22	by a single reference. Anticipation has never been raised
	24		For the Plaintiff	23	in this case, Your Honor, and there is a difference between
	25			24	
					saying that a person of ordinary skill would understand
			507	25	something from a disclosure and saying that there's a
1	APPEAR	RANCES CONTINUED:	307		509
				1	combination of a reference with the knowledge of a person of
2		MORGAN LEWIS		2	ordinary skill in the art.
3		BY: JODY C. BARILLARE, E	SQUIRE	3	THE COURT: Okay. So I think I understand what
Ü		-and-		4	you're saying which is you can't say it anticipates, call
4				5	that obviousness, and let the jury go from there. Is that
_		GOODWIN PROCTER, LLP		6	what you're saying?
5		BY: BRETT SCHUMAN, ESQ BY: RACHEL WALSH, ESQU		7	MS. TARGOWSKA: Exactly, Your Honor. It's
6		BY: DOUGLAS KLINE, ESQL		8	THE COURT: Okay. I've got that point.
		BY: ANDREW ONG, ESQUIP	RE	9	What is the response here, Mr. Ong?
7		BY: CINDY CHANG, ESQUI	RE	10	MR. ONG: Good morning, Your Honor. So
8		For the Defen	dant	11	Dr. Jacobsen is not going to testify as to an anticipation
-		1 or the belefi	==::*	12	opinion.
9		*** PROCEEDINGS **	*	13	THE COURT: But she can't testify that it
10		DEPUTY CLERK: All rise		14	anticipates and say I'm calling it obvious, can she?
11 12	Please	THE COURT: All right. ( be seated.	Good morning, everyone.	15	MR. ONG: No, she's not going to testify to that
13	0450 1	All right. So one admini	strative matter. I	16	effect.
14		the courtroom deputy has pa		17	THE COURT: So I guess what would make this
15 16		lotted or that each side has u		18	easier is is it Ms. Targowski?
16 17		at some of the depositions th ay, that the time is supposed		19	MS. TARGOWSKA: Targowska.
18	-	been given that information		20	
19		fferent allocation of that, you			THE COURT: Okay. Sorry. Ms. Targowska says
20	informa			21	that these slides go along with Dr. Jacobsen saying every
21 22	with or	So in terms of any issue at least resolve this morning	· -	22	single element is disclosed in one single prior art
23	vvitii Ul	· ·	Your Honor. We have a few	23	reference. Which element is not disclosed?
	issues a	about slides.		24	MR. ONG: Which element is not disclosed?
24 25				25	THE COURT: Right. Right. In other words, just

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So the easiest way to understand shared memory is to contrast it with the only other way that you can do this which would be with dedicated memory. So on the left here, I've got a figure that shows a dedicated memory approach. And there you have a block of memory that is always and forever devoted to the interleaver.

And you have a separate block of memory that is always and forever associated with the deinterleaver and available to the deinterleaver. If you have a shared memory approach, instead what you do, if I can make my pointer work, is there's a single block of memory. And this boundary here between the interleaver and deinterleaver can move according to the Court's construction.

And I would -- I will emphasize that the Court's construction doesn't actually require the shared memory to be shared between an interleaver and a deinterleaver. I'm showing that in my diagrams simply because that's what the patent claims require. But the Court's construction is actually more general than that, just to functions.

21 Q. Was shared memory, as the Court has defined it, known 22

prior to the date of TQ Delta's patents?

23 A. Absolutely, yes.

24 Q. Can you explain?

25 Α. For example, one reference, and I will talk to you

more about this reference, is called the Mazzoni patent. This was a patent that was actually considering the use of shared memory in a VDSL system for interleaving and deinterleaving.

This patent, and we'll talk more about it, I've pulled out Figure 6 from this patent, and I've annotated with some colors here and a bubble. But the top part in blue is the portion -- is the interleaver, and then the part in pink is the deinterleaver. And there's a shared memory block labeled MM where part of it has been allocated to this interleaver and part has been allocated to the deinterleaver.

So that's one reference, and we'll talk more about this a bit more. And another couple of references are the Berkmann patent and the Kang patent. The Berkmann patent describes a data memory for temporary storage of the data to be interleaved and deinterleaved.

And the Kang patent describes a double buffering procedure that allows the channel interleaver memory to be used also as deinterleaver memory. So those are a few references that I found that show shared memory well before the patents' priority date.

23 Let's switch gears, again, Dr. Jacobsen, back to your

24 non-infringement opinions. Let's dig a little more into

25 your non-infringement opinion. Did you prepare a slide 1 summarizing the bases for your disagreements with

2 Dr. Cooklev regarding whether these 2Wire products infringe

3 the TQ Delta patents?

4 Yes, I did. And what I did was first understand what

5 Dr. Cooklev needed to show in order to prove that the

6 accused products infringe. And he had to prove that each of

7 the elements of the claims are performed by or practiced by

the accused products.

9 So I started with the standard, and then I 10 concluded that, among other things, the accused products do 11 not receive -- and the wording here is foreign, so I will 12 emphasize it here. The claims require a message during 13 initialization specifying a maximum number of bytes of 14 memory that are available to be allocated to an interleaver 15 or deinterleaver.

And you've heard about the O-PMS message, and I will talk more about it, but it does not have that. And so on that basis, the accused products do not receive that message that's required by all of the claims.

I also looked at Dr. Cooklev's testing results, and I don't disagree with his results, but I disagree with how he has interpreted his result responsibility. His results merely show compliance with certain aspects of the standard. They don't show that there's infringement.

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25 Again, the standard itself doesn't require infringement.

1 Q. Let's dig a little more into the second bullet on the

2 slide, your opinion regarding the O-PMS message.

3 Α. Right. I have prepared a slide here. Again, the 4 accused products do not have and do not receive a message

5 during initialization specifying a maximum number of bytes

6 of memory that are available to be allocated to an

7 interleaver or a deinterleaver.

And just to be clear, I've merged the two kinds of messages from the two claims. One, I think it's the '048, says the interleaver. And then the other two say deinterleaver, but I've merged them in my quotation here.

12 We just don't have that. So the '048, the '882, 13 and the '381, they all require this message specifying a 14 maximum number of bytes of memory are available to be 15 allocated to a interleaver or deinterleaver. We don't have

16 that.

17 Q. Can you describe your opinion regarding what the

18 O-PMS message does and doesn't have for the members of the

19 jury, please?

20 A. Yes. Well, it doesn't specify a maximum amount of

21 memory. What O-PMS describes -- first of all, it has a

22 bunch of fields. I have my -- oh, there you go.

Okay. So we have a bunch of fields here in this

24 O-PMS message. You can see there's 16 fields. None of

25 these fields specify a maximum amount of memory available to

the O-PMS message has been received and the values of I and

opening statement and I wanted to explain to you what that

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		803	1	terms of how to handle them afterwards which is simply that
	1 IN THE UNITED STAT	ES DISTRICT COURT	2	we treat them as physical exhibits so that they go under
	2 FOR THE DISTRIC	T OF DELAWARE	3	seal, and we'd take custody after the trial and after
	3		4	they're used by the jury.
	4 TQ DELTA LLC,	)	5	
	5 Plaintiff,	) ) C.A. No. 13-1835-RGA	6	THE COURT: Okay.
	6 v.	)		MR. PRANGE: Okay.
	7 2WIRE, INC.,	)	7	THE COURT: Well, so I'm saying yes, this is all
	8 Defendant.	)	8	things. So why don't we start with make your motion as to
	9	J. Caleb Boggs Courthouse	9	what exhibits we're talking about.
	10	844 North King Street Wilmington, Delaware	10	MR. PRANGE: Certainly, Your Honor. TQ Delta
	11	Thursday, May 23, 2019 8:30 a.m.	11	moves to admit JTX 0086, specifically Page BCRM_code_000037.
	13	Trial Volume IV	12	THE COURT: Are you going to do this 29 more
	14 BEFORE: THE HONORABLE RICHARD	G. ANDREWS. U.S.D.C.J.	13	times?
	15 APPEARANCES:	o. mbidno, o.o.b.c.o.	14	MR. PRANGE: Well, I have a sheet here.
	16 FARNAN LLP		15	THE COURT: Okay.
	BY: MICHAEL J. FA	RNAN, ESQUIRE	16	MR. PRANGE: It depends if you want me to do the
	-and-		17	reduced version or the long version.
	MCANDREWS HELD & M 19 BY: PETER J. MCAN	DREWS, ESQUIRE	18	THE COURT: So I'd like the short version, if
	BY: PAUL W. MCAND 20 BY: JAMES MURPHY, BY: THOMAS WIMBIS	ESQUIRE	19	you have a sheet, which presumably 2Wire has, too.
	21 -and-	COS, ESQUIRE	20	MR. PRANGE: I can just do the other option
	22 ROBINS KAPLAN LLP		21	
	23 BY: DAVID A. PRAN BY: BENJAMIN C. L		22	is I could just say the exhibits, and I can provide a sheet
	24	For the Plaintiff		up to the Court.
	25		23	THE COURT: Well, maybe that would be a better
			24	way to do it. So, and I see Mr. Ong doing something that I
		20.4	25	don't usually see.
1	APPEARANCES CONTINUED:	804		806
	ATTEMANIOES CONTINGED.		1	MR. ONG: We're just taking a picture of it.
2	MORGAN LEWIS		2	THE COURT: No, that's fine. All right.
•	BY: JODY C. BARILLARE, E	ESQUIRE	3	So why don't you just say the exhibit numbers,
3	-and-		4	Mr. Prange.
4	and		5	MR. PRANGE: TQ Delta moves for admission of
	GOODWIN PROCTER, LLP		6	Exhibits JTX 0086, JTX 0087, JTX 0088.
5	BY: BRETT SCHUMAN, ESC		7	
_	BY: RACHEL WALSH, ESQ		,	THE COURT: You know, if you don't say the
h			8	THE COURT: You know, if you don't say the zeros, they're going to be presumed.
6	BY: DOUGLAS KLINE, ESC BY: ANDREW ONG, ESQUI	UIRE		
6 7	BY: DOUGLAS KLINE, ESC	RE	8	zeros, they're going to be presumed.  MR. PRANGE: Excellent. We further move to
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	Case 2:21-cv-00310-JRG Document 385-2 F	<del>illea</del>	01/13/23 Page 13 of 32 PageID #: 17661 809
1	MS. HAYNES: Hello.	1	MS. HAYNES: Yes.
2	THE COURT: Why don't you hold on a minute. Why	2	THE COURT: Mr. Prange, who has these exhibits
3	don't I go to part two here.	3	right now? Does plaintiff?
4	MR. PRANGE: I may only have two parts.	4	MR. PRANGE: Yes, Your Honor. Okay.
5	THE COURT: So what's the second part?	5	THE COURT: Well, so how much of an
6	MR. PRANGE: The second part is timely that we	6	administrative task is this assuming that I said, yeah,
7	make a motion to seal the exhibits just as well as JTX 0076	7	redact the things because I think there is a pretty good
8	and JTX 0077.	8	outline at least for some of these as to exactly what it was
9	THE COURT: Okay. All right.	9	that the experts were referring to?
10	I take it there's no objection from 2Wire?	10	MR. PRANGE: I think it's going to take some
11	MR. ONG: No, Your Honor.	11	time in order to go through the record and determine what
12	THE COURT: Okay. So I'll grant that. And then	12	was referenced and compare that actually to the source code.
13	I thought the third part was that when we were done, the	13	THE COURT: Is there a transcript of the
14	custody of these would be relinquished to someone else	14	teleconference in the record?
15	which right?	15	MR. PRANGE: I don't know, Your Honor.
16	MR. PRANGE: Correct, Your Honor.	16	MS. HAYNES: I do have a copy. I have it with
17	THE COURT: Okay. So hold that thought. So	17	me. I would need to go back and reference it.
18	Ms. Haynes, what would you like to say?	18	THE COURT: Well, actually maybe we can resolve
19	MS. HAYNES: Good morning, Your Honor. The only	19	this. Ms. Haynes, why don't you go and get the transcript.
20	issue I think certainly we, obviously, do not oppose that	20	Mr. McAndrews, sorry to interrupt you because
21	they be sealed. If I understood Your Honor's ruling	21	I'm sure you have other things on your mind right now. Are
22	correctly last Friday, I think they were also supposed to	22	you planning on using any of the source code in your closing
23	redact any portion of the source code upon which they were	23	argument?
24	not relying.	24	MR. MCANDREWS: Nothing by specific reference to
25	THE COURT: I don't remember my ruling of last	25	line numbers.
	808	20	
4		4	810
1	Friday in terms of what they're giving the jury right now	1	THE COURT: Actually what I meant is are you
2	Friday in terms of what they're giving the jury right now about various specific pages. And since I'm sealing them,	2	THE COURT: Actually what I meant is are you going to show any source code to the jury?
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1	doesn't show?	1	Honor.
2	MS. WALSH: Yes.	2	THE COURT: Yes. Let's get the jury.
3	THE COURT: Okay. When you say he's on his way,	3	(Jury entering the courtroom at 9:13 a.m.)
4	is there an ETA?	4	THE COURT: Good morning, members of the jury.
5	MS. WALSH: Maybe ten minutes.	5	Sorry for the delay. Can everyone be seated, and can we
6	THE COURT: Okay. I don't like that. You're	6	hand out the jury instructions and the verdict form?
7	here, Ms. Walsh. Do you know why he's not here?	7	So members of the jury, the great bulk of the
8	MS. WALSH: Just working on closing.	8	jury instructions, I'm going to give you and so I have cause
9	THE COURT: Okay. All right.	9	to be handing out the written jury instructions. As I give
10	MS. BANZHOFF: Your Honor, may I be heard one	10	these, you can read, or you can listen, or you can do
11	more time? I think the issue with Mr. Prange may be	11	whatever you want. You will have the written instructions
12	resolved by an in limine instruction.	12	with you. But the main thing is to try to absorb as much as
13	THE COURT: You know, I thought about that,	13	you can.
14	Ms. Banzhoff, but I think it's a balancing at this point.	14	So first off, you will see that in the written
15	And I think it's better not to have more limiting	15	instructions, at pages 2 to 13, there are a bunch of
16	instructions. I've already got one in here on something	16	instructions which are pretty much what I told you at the
17	else.	17	beginning of the trial. They're there. They're something
18	So not an unreasonable suggestion, but	18	that if you have a question about something within those
19	I'm not going to do it.	19	topics, they provide the answers, but I'm not going to read
20	MS. BANZHOFF: Thank you, Your Honor.	20	them to you again. They're there for you to refer to. And
21	THE COURT: All right. Well, Ms. Walsh, is	21	should the attorneys want to rely on them in their closing
22	Mr. Schuman like staying a long ways away from here?	22	arguments, they're perfectly free to do that.
23	MS. WALSH: No.	23	So I'm going to start on page 14, which is one
24	THE COURT: Okay. All right. Well, I don't	24	thing I didn't tell you in advance because it involved
25	think I can really go forward without him, so I'm sorry,	25	things that happened at trial. Over this week of testimony,
	816		818
1	Mr. McAndrews. I don't understand this, but we'll be in	1	you have heard that one witness or another was not allowed
2	Mr. McAndrews. I don't understand this, but we'll be in recess until he shows up.	1 2	you have heard that one witness or another was not allowed to discuss matters of another witness and that certain
2	recess until he shows up.  THE CLERK: All rise.	_	to discuss matters of another witness and that certain witnesses had limited access to Broadcom's source code. You
2 3 4	recess until he shows up.  THE CLERK: All rise.  (Recess was taken.)	3 4	to discuss matters of another witness and that certain witnesses had limited access to Broadcom's source code. You are not to draw any inferences, either positive or negative,
2 3 4 5	recess until he shows up.  THE CLERK: All rise.  (Recess was taken.)  THE CLERK: All rise.	2 3 4 5	to discuss matters of another witness and that certain witnesses had limited access to Broadcom's source code. You are not to draw any inferences, either positive or negative, from those statements.
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#### Case 2:21-cv-00310-JRG Document 38 <del>iiled 01/13/23 Page 16 of 32 PageID #:</del> 1 have to understand the claims. The patent claims are the may also be capable of non-infringing modes of operation. 2 numbered sentences at the end of the patents. The patent Actually showing the performance of the function is 3 claims involved here are the three that I just mentioned, unnecessary. 4 claim 5 of the '381 patent, claim 13 of the '882 patent and So in this case, the only items of or 5 claim 1 of the '048 patent. only the following items are prior art: ITU-T, SG/15/Q4 6 The claims are intended to define in words the Contribution LB-031 entitled VDSL2 - Constraining the boundaries of the inventor's rights. Only the claims of the Interleaver Complexity which I'm sure the parties will refer 8 patent can be infringed. Neither the written description to as LB-031. And U.S. patent number 7,269,208 which will 9 nor the drawings of the patent can be infringed. You must probably be referred to as Mazzoni. 10 use the same claim meanings on both your decision on Regardless of whether a particular 11 infringement and your decision on invalidity. prior art reference was considered by the patent examiners It is my job as a judge to provide to you the 12 during the prosecution of the applications, which matured meaning of any claim language that must be interpreted. You 13 into the asserted patent claims, 2Wire must prove that it is 14 must accept the meanings that I give you and use them when highly probable to each challenged claim is invalid. This 15 you decide whether any claim has been infringed and whether burden of proof on 2Wire never changes regardless of whether 16 any claim is invalid. The three terms that I have the patent examiner considered the reference. construed, and their meanings, are provided to you in a 17 In this case, the date of the 18 separate order, the last page of these instructions. And invention for the asserted claims in the patents is 19 October 12th, 2004. you will recall the parties have often put them up on the 20 screen consistent with what's in that order. The question of invalidity of a patent 21 claim is determined from the perspective of a person of So in terms of infringement, patent law gives 22 ordinary skill in the art in the field of the claimed the owner of a valid patent the right to exclude others from making, offering to sell, or selling the claimed invention 23 invention as of the time of the invention. Thus, prior art 24 within the United States during the term of the patent. Any must be evaluated from the perspective of one of ordinary 25 person or business entity that is engaged in any of those skill in the field of the invention as of October 12, 2004. 822 1 2Wire contends that the three asserted claims are invalid because each claimed invention is 3 obvious. 4 A claimed invention is invalid as 5 obvious if it would have been obvious to a person of 6 ordinary skill in the art of the claimed invention as of A party can infringe a patent without knowing of 7 October 12th, 2004. Obviousness may be shown by considering 8 one or more than one item of prior art. 9 In deciding obviousness, you must 10 To determine infringement, you must compare each avoid using hindsight. That is, you should not consider 11

acts without the patent owner's permission infringes the patent. Here, TQ Delta alleges that 2Wire's products, which have model numbers 5031NV, 5168NV, 5168N, 5268AC, i3812V, and 3801HGV, which if I refer to them again I will just call them the accused products, infringe the three claims at issue.

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the patent or without knowing that what the party is doing is patent infringement.

of the accused products with each of the asserted claims using my instructions as to the meaning of the terms used in these three claims.

A patent claim is infringed only if 2Wire products include each and every element recited in that patent claim. If 2Wire's product does not contain one or more elements recited in a claim, that 2Wire product does not infringe that claim.

Each accused product should be compared to the invention described in each of the three claims at issue. The same element of the accused product may satisfy more than one element of a patent claim. What the asserted claims recite is the capability to perform a function. An accused device may be found to infringe if it is reasonably capable of satisfying the claim limitations, even though it

what is known today or what was learned from the teachings of the patent. You should not use the patent as a roadmap for selecting and combining items of prior art. You must put yourself in the place of a person of ordinary skill in the art as of October 12th, 2004. The following factors must be evaluated to determine whether 2Wire has established that

the claimed invention is obvious. 1. The scope and content of the prior art relied upon by 2Wire. 2. The differences, if any, between each claimed invention of the asserted patents that 2Wire

contends is obvious and the prior art. And three the level of ordinary skill in the art as of October 12th, 2004.

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in the art, the nature of any problem or need to be

addressed, market demand, or common sense. If you find that

a reason existed at the time of the invention to combine the

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and the prosecution history that there was an error and how

the error should be corrected. If an error was not clerical

or typographical in nature, the certificate of correction

correcting that error is invalid.

So the only other instructions I have to do relate to deliberation, and I will give them to you after the arguments of the attorneys. So at this point,

let's turn to the arguments of the attorneys.

Basically for your reference, each side is limited to 45 minutes. And the way it works is plaintiff goes first. They can keep a small amount of time as a reserve. Then the defendant goes. When the defendant is finished, that reserve the plaintiff can use, but that comes out of the 45 minutes total.

Okay? Mr. McAndrews.

MR. MCANDREWS: Thank you, Your Honor. Good morning, ladies and gentlemen of the jury. My name is Peter McAndrews again, and TQ Delta and I want to thank you for your very important jury service. We know it's been a disruption to your lives. For sure it has been. But your sacrifice is incredibly important. You're the backbone of the U.S. judicial system. So again, thank you.

Now, we've done some heavy lifting this week. I feel like all of you can probably pass a graduate level course on DSL. But that's not why you're here. You're not here for your technical expertise. You're here for your collective wisdom, for your common sense, for your impartial view of the evidence and testimony. And to judge the

credibility and motivation of the witnesses you have heard.

That's why the United States has a jury system.

It's the best in the world. That's why we have trial by
.

Some of the words you have heard, DSL, bits and bytes, DSLAMs and CPE, interleavers and deinterleavers, Reed-Solomon codewords, O-PMS message, you heard a lot of those, but I think the evidence, the testimony, the presentation has distilled this back not to how interleavers and deinterleavers necessarily work, not whether you're talking about the CPE or the CO, hopefully now you have got the directions in mind, although it is easy for lawyers to mess it up from time to time.

It comes down to two primary issues. The two primary issues are whether the accused products include shared memory, and I think that that's a fairly straightforward question that's answered in TQ Delta's favor, and whether or not the message specifies memory rather than delay, and specifies a maximum rather than a minimum. Those are really the key things that I think the jury needs to resolve and hopefully you have the tools to resolve those.

Now, I want to remind you when you review the evidence as you just heard that there is two main issues here. There is infringement and there is invalidity. On

infringement, TQ Delta bore the burden. But our burden of
 proving infringement is just by a preponderance. On a
 scale, just a feather, just enough to move it in our favor.
 If you believe that it's slightly more likely than not that
 we have proven infringement, then you should find in favor
 of TQ Delta on the issue of infringement.

On the invalidity side and invalidity will apply both to invalidity in view of the prior art, whether the claims are obvious, it also applies to whether 2Wire has proven that the certificate of correction was issued improperly. 2Wire bears a very heavy burden there. It's a clear and convincing burden, so they would have to tip the scales much further down on their side to prove invalidity, and we don't believe they have done that.

What I'm going to do, I'm not going to take you through all the evidence, I'm not going to argue the entire case to you here. What I'm going to do is remind you some of the things that you heard and bring back some of what you have seen over the last few days and you can hopefully understand and put yourself back to where you heard Dr. Cooklev testify, Dr. Almeroth testify, the inventor, Mark Tzannes testify. If you could put yourself back there when you listen to those words, what you felt based on your common sense whether you were hearing the truth.

So Mark Tzannes, he's an innovator. He devoted

his life's work, thirty years to the DSL industry. He's got
 more than a hundred patents. And he contributed to the
 development of these very important standards.
 Wire on the other hand, you didn't hear that

they were contributors. Instead, they're implementers. So
they took the benefits that Mr. Tzannes provided by working
very hard on the standards and they benefitted from that.
They benefitted from that, but they don't want to pay for

it, they don't want to acknowledge that they're using it.

10 They don't want to do what's right. They should have taken

a license when they were approached six years ago, but theydidn't want to do that.

Something else. They're trying to diminish the value of the invention based on combinations, bits and pieces of the prior art. But we haven't heard yet anywhere, and I think it was acknowledged yesterday in the testimony, that never before is the complete invention of the claims, was it placed in a patent, was it placed in a proposal or placed in a device. By the way, there was some testimony during I think it was what's called recross of Dr. Cooklev where there was a patent put up and the attorney for 2Wire highlighted the word device. That doesn't make it a device. A device is something that's actually been built.

A device is something that's actually been built.
Of course patents can describe devices, they
would describe what they hope would be built, but that's not

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an actual device. We heard no testimony that this invention was ever placed into a device before the invention by Mr Tzannes

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Now, one of the benefits of the invention, you heard a little bit about this. So it provides flexible impulse noise protection. So as there are changing conditions on the network, there are changing needs for data rates, it makes a flexible solution by exchanging memory securing message. You can be devote more memory to the upstream path, and you can devote more memory to the downstream path. It does that by sharing the same memory. You heard the complexity of sharing memories and how prior art can be broken if the memory, if the messaging isn't done the right way.

And ultimately what that does for implementers is it saves them on cost. And that's a very important component when the implementers go to purchase chips and when you reduce the cost of memory, it reduces the size of a chip, reduces power consumption, reduces all sorts of things that lower their costs.

And prior art, it didn't have shared memory, it had dedicated memory. You heard the testimony that to meet the requirements of the standard, provide adequate service, you would need approximately 130,000 bytes of this very fast computer memory with dedicated memory. Well, when you can

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share memory, you can provide all the flexible but with half the memory, about 65,000 bytes of memory.

One running theme here is the DSL standard. 2Wire undoubtedly admits that they practice the standard. They put a witness on the stand that I think he attempted to suggest that maybe they don't know very well, the equipment is a little bit of a black box to them, but at the end of the day, they tell the public, they tell their customers, AT&T, they confirm in a very formal document that their products comply with the standards.

One of those formal documents that we saw was referenced as the Uber Matrix, kind of an odd term. It has nothing to do with how you guys may have gotten over here. Sorry I jumped ahead.

Uber Matrix is a formal document where they tell their largest customer that they comply. The customer says the device must be compliant with the VDSL2 and they confirm that compliance. And they confirm it for each software release, each release of the product. We saw evidence about that. And I don't think there is any dispute that they're practicing the standard.

Remember, though, and we heard testimony about this, that the claims, the totality of the claims that we demonstrated were being used by the accused products, they also require shared memory. And you heard testimony that

1 the shared memory is actually not required by the standard, 2 and that's true. It is recommended by the standard, the 3 standard allows for it, and, therefore, the standard 4 provides a memory sharing scheme that will allow you to 5 share your memory if you want.

Of course, the evidence also showed that the 2Wire products are actually sharing the memory. They took the benefit, they didn't have to, they could have made products that didn't comply -- I'm sorry, they could have made products that did not use shared memory, but they did, they wanted the benefit provided, the cost savings to reduce the amount of memory.

Now, TQ Delta carried its burden. TQ Delta carried its burden by showing you a number of things. I'm going to step you through them. This is our burden on infringement. We believe that we tip the scales far more in our favor than just the feather that was required.

So on the issue of shared memory, we looked at the standard that recommends it. We looked at some Broadcom documents, some testing information, and some source code analysis. I'm going to take you through some of those, just remind you what you may have heard over the last couple of days, or hopefully what you did hear.

The standard, it says, this is referencing the O-PMS message by the way, but it specifies a portion of the

shared interleaver memory. So the message is in particular referencing shared memory. We agree this is not a 3 requirement of the standard, but it's a recommendation and it's telling you the messages are there to allow you to do 5 that

6 Dr. Cooklev also explained that the standard 7 recommends using shared memory.

8 Broadcom data sheets that we saw, they explain that there is a triangular FIFO based, that's a fancy word for shared memory. Dr. Cooklev confirmed that that's, in fact, shared memory.

Dr. Cooklev also explained how his testing showed that given the different configurations he tested that in some configurations, certain memory was used for the interleaver and in another configuration certain portions of the same memory were used for the deinterleaver. We also heard from Dr. Almeroth, and he showed how the source code proves that the assignment of the memory in interleaver memory and deinterleaver memory come from the same block of memory.

On the other hand, we didn't have any evidence, no opinions from any of the experts that showed up here for 2Wire. Dr. Jacobsen had no opinion about whether the accused products include shared memory. She agreed, I don't have an opinion.

### Case 2:21-cv-00310-JRG Document 385-2 <del>Filed 01/13/23 Page 20 of 32 PageID #:</del> 1 Dr. Yu hadn't even looked at the claims so he memory is pointers and not the interleaver deinterleaver 2 certainly didn't have any opinion on whether the accused memory itself. I'll show you that. 3 products used shared memory. He didn't deny that they did. Dr. Jacobsen called the additional memory And Dr. Walker didn't provide any testimony at 4 headroom. Kind of a vague term, but she certainly didn't all, but I asked Dr. Jacobsen who had relied on Dr. Walker say that it was interleaver deinterleaver memory. 6 for certain things and she agreed he had no opinion on Dr. Yu, he used a word very similar to whether there was shared memory. In fact, all the way back Dr. Jacobsen. He said overhead. Well, overhead, nobody 8 at the start of the case when 2Wire's counsel spoke to you told you that that's interleaver and deinterleaver memory. 9 in the opening statement, he agreed, he said this case is It's not. Again, it's these pointers, these additional 10 indeed about how to divide up the shared memory that's in things that help maybe control what's going on in the 11 the accused product. So I really think that that issue is interleaver deinterleaver memory, but it's not interleaver put to rest. 12 deinterleaver memory. 13 Now, maximum is not a minimum. Your common And they're talking about implementation details 14 sense tells you that's likely true. But the technology is a where they want to say it's a minimum. Yeah, you need some 15 bit complex, so we took you through the evidence and showed of this other stuff. It doesn't even have to be stored, as 16 you why the amount of memory being specified in the message we heard from Dr. Jacobsen, in the same memory, but there's was actually a maximum and couldn't be a minimum. If it was 17 a little bit more. 18 a minimum, the systems would be broken. Dr. Cooklev But the amount of memory, (I minus 1) (D minus 19 explained to you that the memory being specified as (I minus 1), which is actually doing the interleaving and 20 1)(D minus 1) over 2, that was the maximum amount of deinterleaving, that's what's specified in the message. 21 That's what the maximum number of -- that can't be any more 22 than specified in the message. 23 And Dr. Walker referenced this 3MK plus 8, but I 24 think as you heard from Dr. Cooklev that's simply this 25 overhead. That's in additional memory, pointers and things. 1 So here's the book. The pointers are the A, and

21 interleaver memory that could be used because the 22 interleaver and deinterleaver have to be mirror images, they 23 have to tell each other so they can coordinate that to 24 decode the data that can be interleaved on the way out and 25 deinterleaved on the way in, that's the only way it could

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1 work. It's specifying memory and specifying a maximum amount. Dr. Cooklev said if I got 30 and you got 40, that's 3 not going to work, if I say 30 and you treat that as a 4 minimum and you select 40, it's broken. You select that 5 as -- if you read that and understand it as a minimum, it's 6 going to work. So it's got to be a maximum not a minimum. 7 We also had this testimony about peripheral 8 memory. I think 2Wire and some of their witnesses were 9 suggesting that this additional memory, this implementation 10 specific memory, they point to this portion of the standard 11 that talks about this is the minimum amount of memory

memory. It says the total memory. So what is the total memory? The total memory is the interleaver and deinterleaver memory. Remember, it's the memory that you need to store the Reed-Solomon coded data bytes that you're spreading out. And the additional memory is peripheral memory.

because of an implementation detail here. But that part of

the standard doesn't say interleaver and deinterleaver

And we have a number of sources that confirm that it's peripheral memory. We have a number of sources that refuse to say and explain to you why they believe that was interleaver memory.

24 So we've got a little chart here. We've got 25 Dr. Jacobsen's book that explains that additional peripheral

the L, and the U. And I apologize, I'm stepping through 3 this a little quickly, but I think you heard this. The A, 4 and the L, and the U over there, that's effectively a memory 5 pointer. And what it says is typically that's much smaller 6 than the interleaver or deinterleaver memory itself. 7

And this came out of the book that Dr. Jacobsen edited. She agreed that the book she edited distinguishes the interleaver deinterleaver memory itself from the memory. She agreed with that characterization of what the chapter in her book said.

Dr. Yu explained -- he explained a couple things here, but what he explained down here at the bottom when he was talking about the memory is here's his term overhead. So he talked about the (I minus one) (D minus one) over two. Then he said that was a minimum. But the only reason he said it was a minimum is because there was some additional overhead that was required. Again, that's not the interleaver deinterleaver memory.

So now max\_delay\_octets, we heard some suggestion that that's delay. It's not memory. It's not memory specified in bytes. It's some sort of maybe time delay or has nothing to do with memory perhaps. And we saw why that's not true. First of all, the O-PMS message itself says that

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He said the source code is the gold standard. He said that's really where you have to go to find out how these products really work.

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hear that out of Dr. Walker. He didn't show you new detailed lines of code. He didn't step you down through the functions. And you certainly didn't hear that of Dr. Yu.

Dr. Yu didn't have any source code to show you. He didn't explain any files. He didn't show you that.

And the analysis of Dr. Almeroth was rigorous. He started with the claim language.

Dr. Yu didn't start with any claim language. He didn't even -- he had never seen the patent. He barely knew how to read a patent. He didn't know what a patent was. Even his own patents, he's never read.

So Dr. Almeroth, starting with the claim language, he looked at all -- how that mapped to the standard to understand the functionality. He started at the top. He worked his way down through every file and function. He gave you specific line numbers. He showed those to you. He explained to you how each one of those supported elements of the claim.

disclose shared memory. I think they had a couple slides 10 that suggest that maybe it did, but ultimately she admitted 11 that this doesn't disclose shared memory. In fact, it 12 doesn't have any explicit discussion of any memory 13 configuration.

And our witness, Dr. Cooklev -- and granted we were a little rushed there at the send, but he explained to you why LB-031 simply can't be used with memory sharing. He explained that you exchange a maximum on each side of these two, but these two sides are not coordinated. They each exchange their maximum, and then that's the end of the conversation. There is no further conversation between the two devices. There's nothing further disclosed in LB-031 about how you might coordinate memory.

22 23 And so what happens is you wind up with 24 unused -- if this guy says, I've got 40,000 bytes, and this 25 guy says, I've got 30,000 bytes on this path, there's no way

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for this memory to end up down here because the conversation is over at that point.

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There's simply no way to share memory using LB-031. And in fact, we showed you with a specific reference. Well, so Dr. Cooklev he explained it, and again it was a little bit rushed, but hopefully you gained from that the reasons why it's broken, the reason why it won't share memory.

And then on to the other issue. So we actually showed you -- one of the combinations they tried to put together was LB-031 with Mazzoni. We showed why LB-031 actually couldn't be used at all with Mazzoni. And the reason for that is, because as Dr. Cooklev explained, Mazzoni only has, based on its various -- you know, its 12 service profiles, it only has 27,000 bytes of memory. But if you use Mazzoni's messaging protocol, it wants to tell each other a total of 36,000 bytes of memory.

So that's going to break it. There's not going to be enough to work on either direction, and it's broken.

So what was the reason? So the reason that Dr. Jacobsen said that, no, that could be fixed. One skilled in the art would know how to fix that. And her only solution for that was to add more memory. But remember, she's saying that you would be motivated to combine them.

And what reason did she give? She said that you

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would be motivated to combine because both references -both references are concerned with limiting the amount of memory. So if you put them together, you have to increase that amount of memory again and make them work together. You've defeated the whole reason you put them together in the first place.

And now you don't even need shared memory. You have 36,000 bytes of memory. Now, you can do what LB-031 did. You never have to cross over into the other side. You can divide those memories back up and never use one for the other side. It completely eliminates the benefit of the invention, and it eliminates the need for the invention. So there's no motivation to combine LB-031 in any way where you're going to arrive at the invention.

Now, so back to the burden of proof. We don't think that there is anything that they've shown, anything that 2Wire has shown that establishes their burden. In fact, we think they're way up here. They've got LB-031 that is totally incompatible with shared memory. And when you put them together, you've got a broken device.

Now, the certificate of correction, let me go through that real quick. You heard testimony that it was a cut and paste error. We believe that that's actually the case, and I'll show you in a second why we absolutely believe that it was a simple cut and paste that then got

1 corrected.

2 And the patent -- and remember, the issue was 3 there was a transposition of transmission and reception. 4 Simply, a transmission of -- transposition of transmission 5 and reception. Transmitters transmit. Receivers receive. 6 A deinterleaver is part of the receiver that receives the 7 deinterleave. Transmitter, part of the interleaver that 8 interleaves to transmit. 9 And that's where the mistakes were made. That's

10 how it was fixed. We had an additional error in the claim, shred.

That was fixed. Certainly patent attorneys can make mistakes undoubtedly.

Now, here's why we know it's a cut and paste error. Shred. So shred is not the sort of thing that you would type out multiple times and make that same mistake over, and over, and over again. If your entire patent was about shared memory, you're not going to make that mistake that many times. So obviously -- and this was shown to you yesterday by 2Wire's attorneys. They showed you, and I think they were trying to make the point that we made the mistake a lot. 2Wire's attorney made the mistake a lot.

In fact, what they proved was it was absolutely a cut and paste error. Look how many times shred showed up. It got propagated across multiple patents.

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So what the attorney was doing -- we got the same disclosure -- he's claiming different aspects of the 3 same invention. Some transmitters, some receivers looking at different aspects of the message being sent. And he cut and pasted across and then went back. And he did his best, 6 he tried to change the words that were the right words to change, but he obviously missed a couple of them. And some 8 of them, transmit was receive, receive was transmit.

And the Patent Office recognized that. They issued a certificate of correction, made the corrections. And we don't think there's any way 2Wire has established by clear and convincing evidence that this isn't something that was readily recognized as a clerical error.

Now, lastly, I want to explain to you how important our patent system is. So the patent system, why is it in the United States? Well, it's there because in the very first article of the Constitution, Section 8, Clause 8, the founders of the country realized that we needed a strong patent system.

And why did they need that? Why did we need that? Because in Europe, the system was broken. In Europe 22 what they did is they granted patents based on the friend 23 and family plan. The Monarch would give the buggy patent to his brother-in-law. He would give the metallurgy patent to his nephew.

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was stagnate. If you don't have any incentive, if you just get it out of privilege and right, you're born into it, there's no incentive to make a better buggy, a faster buggy. There's no incentive to make better wheels. There's no incentive to make steel cheaper.

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And that's why in the United States, we have the greatest innovation engine in the world because we have a strong patent system. So it's very important to incentivize our inventors.

And that's what happened here. Marcos Tzannes, he could have decided on a different career. He could have worked for a company that implemented technology and just let other people invent for him. But, no, he was incentivized because he had ability to collect patents on his inventions, and that gave him the right to exclude others. And by excluding others, yes, that gives you a right to collect some money. That's what your incentive is.

That's why in the United States, we invent vastly more than any other country in the world because we have a strong patent system. So it's very important to incentivize our inventors. It's a critical part of the reason why we have the best economy in the world.

Now, I'm going to take you through the verdict form here really quick. This is like a little multiple

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choice test you're going to get when you go back and deliberate. I just want to explain to you that you're going to have sections on infringement, validity, and certificate of correction. And the way that these verdict forms are going to be filled out is they're just one question, but read the question, pay attention.

So this one, for example, is -- so it's going to explain to you that TQ Delta has the -- so the question is: Has TQ Delta proven by a preponderance of the evidence -the burden will be there to remind you -- that 2Wire -- has 2Wire infringed corrected claim 5 of the '381 patent by making, selling, or offering to sell its product model numbers? And then the product model numbers are grouped according to chip set.

And we provided testimony why the 5031NV and the other models listed here that use the same chip. Well, they use two chips, but those two chips are related by the code base as Dr. Almeroth explained.

So these products are all lumped together, and they rise and fall together. So if you find that there's infringement of one of them, and you feel like we have shown adequately that they're the same product, essentially as far as DSL functionality goes, then you would answer this, you would answer this one yes. And this same question appears for each of our accused, I'm sorry, each of the asserted

claims. It's going to step you through the accused 2 products.

3 So, for example, here is the claim 13 of the 4 '882, and here is claim 13 of the '883 applied to the other 5 grouping of products, i3812V and 3801HGV which uses the 6 Broadcom chipset.

Similar questions again for the '048 patent. And there is a little key here, so you can confuse who you're finding for. It says checking yes finding for TQ Delta, checking no indicates a finding for 2Wire on the issue of infringement.

And then we have got obviousness, so 2Wire says the patents are invalid for obviousness. Remember, it's clear and convincing burden standard. If you feel they have not met that burden and we believe they have not, then the answer will be no, and no.

So this is LB-031 along with what's called the knowledge of ordinary skill in the art. The question is would someone had taken that reference and added shared memory to it, and we have shown you why it's not going to work together, so the answer would be no.

And this is -- and again, you're going to step through for each of the asserted patents and each of the asserted claims. And then we get to the certificates -- I'm sorry, whether the certificates of correction are valid.

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1 And again, it's 2Wire's burden to prove by clear and convincing evidence that it was not clearly evident that it 3 was -- you know, the double negatives here are a little 4 tough.

Essentially what 2Wire has to prove, what you have to conclude by clear and convincing evidence is that they weren't cut and paste errors, that they clearly were not cut and paste errors, I guess that's the way to say it. They would have had to show that they clearly are not cut and paste errors in order for you to find for them. And we believe that you should find no, that they have not established that. So on the certificates of correction, on each corrected claim we have asked you to find in favor of TQ Delta.

And that concludes my opening presentation. I want to thank you again for your service. We ask you when you go back to deliberate to give due consideration to the evidence we put on, and find in favor of TQ Delta.

19 Thank you very much. 20

THE COURT: All right. Thank you,

21 Mr. McAndrews.

22 Members of the jury, we're just going to take a 23 short break here. So I'm going to ask that you be taken 24 out. 25 (Jury leaving the courtroom at 9:59 a.m.)

to knock over each one of these pins in order to prove infringement. If you find that even one of these elements is not met in the accused products, then your verdict should be for 2Wire. But it's not just the first element that's not met. We heard evidence about the determining step, the

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1 next step in each of these claims. This is what Dr. Yu referred to as the theoretical method. This is the 3 formulas. Dr. Cookley was cross-examined about these 4 formulas. Remember, he did some tests and in those test, he 5 didn't measure memory for his test, he calculated it. And 6 he calculated it using a formula, (I minus 1) times (D minus 7 1) over 2. That was the formula that he used and he got 8 that from the standard. When he was cross-examined by 9 Mr. Kline, you might remember, he was asked about the 10 formula 3 times MK plus 8 plus (I minus 1) times (D minus 1) 11 over 2. And what he said is well, Broadcom may be doing it 12 in a proprietary way, and he didn't really provide much 13 testimony about the formula itself. 14 Dr. Yu came yesterday and testified that the

that's just extra.

formulas that, the Broadcom products use to determine interleaver and deinterleaver memory are not (I minus 1) times (D minus 1) over 2. There is different formulas for the interleaver side and the deinterleaver side of both of these two chips. None of those formulas are (I minus 1) times (D minus 1) over 2.

13 But Dr. Cooklev explained that this Z memory, Z 14 bytes, is it needed to interleave the Reed-Solomon coded 15 bytes? Yes. And Dr. Yu explained, does the chip allocate 16 the number that you referred to as the theoretical memory or 17 does it allocate more in the physical memory. 18 More, because of how you need the overhead on

And Dr. Yu clearly testified for both chips, for both the interleaver side and the deinterleaver side that

top of the theoretical minimum. When you say overhead, is that overhead required to actually do the interleaver on the interleaving side? Yes. This is part of the interleaver, and the

22 the amount of memory in the Broadcom chip is not constrained by these max\_delay\_octet fields.

same thing on the deinterleaver side. And you can't just brush it aside and say, well, that's overhead.

25 I went through each of the sides of the two

25 This is Dr. Yu's testimony again for

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3 physical memory. And that's a requirement of the claims and 4 a requirement of each of the third element of these claims

5 is that they allocate no more than the maximum amount

6 specified in that message.

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Now, Mr. McAndrews said and TQ Delta has suggested through the course of this trial that that's just extra memory. I think Mr. McAndrews referred to as peripheral memory. I think TQ Delta's position is that doesn't count, you shouldn't focus on the three times MK,

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#### Case 2:21-cv-00310-JRG Document 385-2 <del>Filed 01/13/23 Page 27 of 32 PageID #:</del> 1 portions were for deinterleaver. But a person of ordinary inventor is not entitled to a patent on something that is 2 skill in the art, she testified would have recognized that obvious. Again, one of the things that Mr. McAndrews and I you could improve Mazzoni using the messaging scheme of 3 agree about is the importance of the U.S. patent system. LB-031. 4 But innovation is actually stifled if patents are issued on 5 I'm going to move on to the certificates of obvious things. 6 correction. So there's a lot of typos. Alleged typos. The way the bargain works is if you come up with 7 There's a lot of mistakes across a lot of patent claims. something that is not obvious that advances the state of the 8 Dr. Jacobsen offered the opinion, Look, when I art, then you get that deed. You get that piece of 9 consider the specification talking about how broad this property, that intellectual property that gives you that patent is, how many different ways you can implement the 10 right to exclude people from your property. But if you 11 technology in this patent, when I consider the file don't come up with something that's nonobvious, I know it's histories, the filings of the Patent Office to get these 12 a tongue twister, but if you don't come up with something patents, and how these patents got made, she offered the 13 that's nonobvious, you haven't advanced the state of the 14 opinion that it's not obvious to a person of ordinary skill art, you're not entitled to that patent. So we agree the 15 that these words in the claims as they originally issued patent system is important. We agree that inventors of new 16 were just typos. and nonobvious inventions are entitled to that intellectual Dr. Cooklev who's a professor at Purdue, 17 property, that right to exclude. But not if what you have engineering professor testified extensively yesterday that 18 invented doesn't advance the state of the art. You don't it must just be cut and paste errors. He's just 19 get to exclude others for roughly twenty years. 20 speculating. TQ Delta did not bring -- you did not hear So if you agree that the evidence we have 21 from Mr. Vick. You heard his name yesterday, the attorney presented proves that each of the TQ Delta patents is 22 who actually wrote these claims. Instead, Dr. Cooklev obvious, then you check the yes box. 23 And there is two choices on the verdict form. 24 I want to conclude by taking you through the You heard about LB-031, the contribution in Leuven, as 25 verdict form. There we go. interpreted by somebody of ordinary skill in the art. And 866 It starts on Page 2. Some of these questions 1 then there is a second question for LB-031 together with the Mazzoni patent, the one that the experts agree discloses the

speculated this could be cut and paste.

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about infringement, if you agree with us that TQ Delta has not proved infringement, you check no in each of these boxes. Claim 5 of the '381 patent is guestion number one.

7 '882 patent, question number two. 8 Claim 13 of the '882 patent, question number 9 three.

And I should clarify there's a lot of numbers on the verdict form. You've heard product numbers during the course of the case, and you've heard the Broadcom chip numbers. So these questions are grouped together according to which products go with which Broadcom chip numbers. So for example, in Section 2, claim 13 of the '882 patent, these are the products that correspond to the BCM6368 and 63168 chip sets.

Question four, infringement of the '048 patent by the 63168. If you agree with 2Wire, check no in that box.

Claim one of the '048 patent as to the BCM6091 22 chip and the products associated with that, if you agree 23 with us, check no in that box.

24 Before I do the obviousness section. I want to just -- I want to just talk a little bit about why an

3 shared memory of the patent claims in this case.

4 So for claim 5 of the '381 patent if you agree 5 with 2Wire, check yes, that claim is invalid.

6 Question 6B is the combination of LB-031 and 7 Mazzoni. If you agree with us, you check yes for 2Wire.

9 you agree the evidence shows that LB-031 renders obvious 10 that claim, you check yes. If you agree that LB-031 in

Claim 13 of the '882 patent, this is similar, if

11 combination with Mazzoni renders obvious that claim, you 12 check yes.

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Same two questions for the '048 patent, if you agree with 2Wire on either LB-031 as understood by a person of ordinary skill in the art or LB-031 together with Mazzoni, check yes.

The validity of certificates of correction, basically whether it's an obvious typo and a person of ordinary skill in the art would have recognized it as an obvious typo that could have obviously been corrected, 2Wire has presented evidence that it is not obvious testimony, Dr. Jacobsen's testimony, if you agree with us, check yes for each of the two certificates of correction. I want to end by thanking you again for your

time this week. It's a very important case to my client,

Case 2:21-cv-00310-JRG Document 385-2 <del>Filed 01/13/23 Page 28 of 32 PageID #:</del> 1 1 2Wire. And we appreciate your time. do that. That's all this means. This is not relevant to 2 2 Thank you. the invention. 3 THE COURT: All right. Thank you, Mr. Schuman. 3 And certainly what you're not going to find in 4 Mr. McAndrews. Do you need any time, 4 the document because this is how it would work, you're not 5 Mr. McAndrews, to set things up or are you ready to go? 5 going to find any discussion of messaging. There is no 6 6 MR. MCANDREWS: No, I believe we're ready to go. memory sharing message at all because there doesn't have to 7 7 Thank you. be. That was a little bit of misdirection I think on their 8 8 THE COURT: All right. part. 9 9 MR. MCANDREWS: So I get to have a brief moment I want to talk about LB-031. They want to make 10 10 here to respond to some of that. it sound like -- we don't need the slide for this. They 11 11 So in no particular order I want to start with want to make it sound like you got LB-031 and you got two 12 this discussion about a meeting in Belgium that was raised 12 choices, it's a limited number of choices, it might be 13 at the end of the day yesterday. I want to put it up on the 13 shared memory, it might be dedicated memory. 14 14 board here because Mr. Schuman didn't tell you the whole Well, a skilled engineer is not going to pick, 15 15 story. He didn't explain to you what Mr. Tzannes said after if they got two choices, the skilled engineer is not going 16 16 Mr. Tzannes had a chance to say what was going on in the to pick the version of that that doesn't work. A hundred 17 document in Belgium. If we could pull that up, please. 17 percent of the time they're going to pick the only version 18 So what you didn't hear from Mr. Schuman was the 18 of that that works and that's dedicated memory. They didn't 19 19 final answer that was given by Mr. Tzannes which was the provide any rebuttal, you didn't hear any testimony from 20 20 most important thing to understand about what went on in anyone on their side of this case explaining how you would 21 21 Belgium. I want to explain to you as an initial matter, make LB-031. You didn't see anybody stepping through 22 22 that's not prior art. What went on in Belgium, not prior messages the way we did. They didn't provide any testimony 23 art. You're not going to find it on the verdict form. What 23 at all but through our testimony that you can't do it. You 24 24 you're going to find on your verdict form is the two have no way to swap memory from the interleaver to the 25 25 deinterleaver. From the upstream to the downstream. There combinations that they presented evidence on in the case, 1 that's LB-031 in view of the knowledge of ordinary skill in 1 is no way to do it. So they're not equal choices. In fact, 2 the art and LB-031 and Mazzoni, that was their position. there is no choice, there is a single choice with LB-031 and 3 3 This Belgium thing is not prior art. that is you got to use dedicated memory all the time. 4 In any event, I'll tell you why it's not, even 4 Now, he mentioned that we didn't cross-examine 5 Dr. Yu who was supposed to provide this earth shattering if it was prior art, it's not relevant. Because what 5 6 6 Mr. Tzannes said here, and in this document that was shown testimony that never arrived. We did. We did cross-examine 7 to Mr. Tzannes, they said aren't there two paths and aren't 7 him. We kept it short. We didn't want to belabor it. And 8 R they sharing memory? And the answer is yes, that's true, he testified that he wasn't even aware of the patent. He 9 there is two paths and they're sharing memory. Do you know 9 had never reviewed the claims, so he didn't know what 10 10 what that is? It's two paths in the same direction. Do you functionality he was trying to compare. 11 11 see that? In the same direction, you have a fast path and a The other reason we didn't cross-examine him is 12 12 slow path in the same direction. It's like the figure here, because you don't cross-examine somebody and try to 13 13 latency path one on the top, we didn't talk at all about the discredit them when they support your side of the case. 14 second latency path because it would have added a layer of 14 That's what Dr. Yu did. Why would we try to change his 15 complexity that's not relevant to the case. You have a fast 15 testimony when he confirmed that max\_delay\_octet and I minus 16 16 1 D minus 1 over 2 are exactly how much memory is used for path and a slow path. What that means, if you share memory, 17 17 the interleaver and the deinterleaver. if you share memory it shares memory between two 18 18 interleavers. It shares memory between two interleavers. Yeah, he called it theoretical. That's a fancy 19 But in any event, there are two interleavers going in the 19 word they wanted to confuse you with. It's not theoretical. 20 20 same direction, that's not sharing memory between an That is exactly how much memory that the product uses for 21 21 interleaver and a deinterleaver where there is going to be its interleaver and the deinterleaver. And the remainder of 22 22 his testimony was that the other memory is being used as some coordination required to do that. It's on the same end 23 23 of the line. You don't have to send a message to anybody. overhead. That's pointers, that's things that are not the 24 It's just like I'm going to share my left pocket with the 24 interleaver and the deinterleaver number. It's not the

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memory that is storing Reed-Solomon coded data. It's not

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right pocket, I don't need to tell anybody how I'm going to

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1 that memory. You don't even need to store it in the same 2 memory. We heard testimony that sure it can be stored in 3 the same block of total memory, but it doesn't have to be 4 there. It can be somewhere else and the reason it can be 5 somewhere else is because it's not the interleaver and 6 deinterleaver memory itself.

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So I just want to kind of wrap this up here. I don't think there is any doubt that Mr. Tzannes did advance the state of the art. 2Wire has used hindsight, pieced together some incompatible elements of the prior art and say there it is, you know, someone already did that. Well, they didn't do that. What they're doing is using the patent, picking out pieces like they're walking down a shopping aisles and saying this looks like a patent, this looks like a patent, let's put them together in a shopping cart. They never thought if they went together. They don't go together. I'm trying to think of an analogy of two items of food that you would eat at home, but that's not what this is, you pull one off the shelf and pull one off the shelf and try them in a dish and it tastes horrible, it doesn't work. And that's what they did. And they used hindsight to do this.

So they try to trivialize. They talk about

THE COURT: Mr. McAndrews, your time is up.

pizza and parking lots. That's not this. This is complex technology. They put on superficial witnesses.

MR. MCANDREWS: Yes, Your Honor.

That's not the evidence that you should rely on. The evidence you should rely on is the specific detailed evidence that we put on showing you lines of source code.

They didn't do that. It's just nothing on their side of the case that tips the scales in their favor, so I'd ask you to return a verdict in favor of TQ Delta.

9 Thank you very much.

> THE COURT: Thank you, Mr. McAndrews. So members of the jury, let me finish up by explaining some things about your deliberations in the jury room and your possible verdicts.

> > Once you start deliberating -- excuse me.

Mr. Dorsney, if you don't mind, would you actually mind staying. I want to talk to you about something when we're done here.

So let me finish by explaining some things about your deliberations in the jury room and your possible verdicts.

Once you start deliberating, do not talk to the jury officer, or to me, or to anyone else except each other about the case. If you have any questions or messages, you must write them down on a piece of paper, sign them, and then give them to the jury officer. The officer will give

1 them to me, and I will respond as soon as I can which will

2 probably be slower than you would expect because I will have

3 to talk to the lawyers about what you've asked. So it may

4 take me some time to get back to you. Any questions or

5 messages normally should be sent to me through your

6 foreperson who by custom of this Court is Juror Number 1.

7 You.

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So one more thing about messages. Do not ever write down or tell anyone how you stand on your votes. For example, do not write down or tell anyone that you're spit four to 4, six to two, or whatever your vote happens to be. That should stay secret until you're finished.

Your verdict must represent the considered judgment of each juror. In order for you as a jury to return a verdict, it is necessary that each juror agree to the verdict. Your verdict must be unanimous.

It is your duty as jurors to consult with one another and to deliberate with a view towards reaching an agreement if you can do so consistent with your individual judgment. Each of you must decide the case for yourself, but do so only after an impartial consideration of the evidence with your fellow jurors. In the course of your deliberations, do not hesitate to reexamine your own views and change your opinion if convinced that it is erroneous. But do not surrender your honest conviction as to the weight

1 or effect of the evidence solely because of the opinion of your fellow jurors, or for the purpose of returning a

3 verdict. Remember at all times that you are not partisans.

You are judges of the facts. Your sole interest is to seek the truth from the evidence in the case. 5

6 A form of verdict has been prepared for you. 7 You need to answer the questions on the verdict form 8 regarding infringement and invalidity. You will take this 9 form to the jury room, and when you've reached unanimous 10 agreement as to your verdict, you will have your foreperson fill in, date, and sign the form. You will then return to 12 the courtroom, and your foreperson will give your verdict.

Now that all of the evidence is in and the arguments are completed, you are free to talk about the case in the jury room. In fact, it is your duty to talk to with each other about the evidence and make every reasonable effort you can to reach unanimous agreement. Talk with each other. Listen carefully and respectfully to each other's views, and keep an open mind as you listen to what your fellow jurors have to say. Try your best to work out your differences. Do not hesitate to change your mind if you're convinced other jurors are right and that your original position was wrong.

24 But do not ever change your mind just because 25 other jurors see things differently or just to get a case

Document 38 875 <del>iled 01/13/23 Page 30 of 32 PageID #</del> <del>Case 2:21-cv-00310-JRG</del> 1 1 you will not suffer anyone to speak to them nor speak to over with. In the end, your vote must be exactly that, your 2 2 own vote. It is important for you to reach unanimous them yourself touching the issue before them unless it be to 3 3 ask them if they have agreed upon their verdict, so help you agreement, but only if you can do so honestly and in good 4 4 God? conscience. 5 5 No one will be allowed to hear your discussions THE MARSHAL: I do. 6 6 in the jury room, and no record will be made of what you DEPUTY CLERK: Thank you. 7 7 say. So you should all feel free to speak your minds. THE COURT: All right. Can you take the jury to 8 8 Listen carefully to what the other jurors have the jury room? 9 9 to say, and then decide for yourself. THE MARSHAL: Yes, Your Honor. 10 10 During your deliberations, you must not (Jury leaving the courtroom at 10:56 a.m.) 11 11 communicate with or provide any information to anyone by any THE COURT: All right. So you all can be 12 means about the case. You may not use any electronic device 12 seated. What I'd like to do is for the plaintiff or whoever 13 or media such as telephones, smart phones, computer 13 has the exhibits or maybe the parties to get them to the 14 14 Internet, websites such as Facebook, Instagram, Snapchat, Deputy Clerk. I'd like to see Mr. Dorsney, Mr. McAndrews, 15 15 and Mr. Farnan in chambers for a minute, which you can come MySpace, LinkedIn, YouTube or Twitter to communicate with 16 16 anyone any information about this case or to conduct any in through this way. 17 17 research about this case until I accept your verdict. In I'd appreciate it Mr. Schuman and Mr. Barillare 18 other words, you cannot talk to anyone on the phone, 18 if you, at a minimum, would hang around because I would also 19 19 correspond with anyone, or electronically communicate with like to talk to you about something else. And I would 20 20 anyone about this case. You can only discuss the case in suggest -- well, I would require that someone make sure that 21 the jury room with your fellow jurors during deliberations. 21 there is a phone number that the clerk can reach you if 22 22 Now, let me finish up by repeating something there's a verdict or a question. 23 that I said to you earlier. Nothing that I've said or done 23 If we do have a question, I authorize the clerk during this trial was meant to influence your decision in 24 24 to tell you what it is, but that's not for you to delay 25 25 any way. You must decide the case yourself based on the getting back here. And I would request that at least for 876 1 evidence presented. 1 the next 15 minutes or so that people hang around here just 2 2 in case something happens. And then the last page is the Claim Construction 3 3 Order which has the three terms that I've construed that you Okay? So Mr. McAndrews. Mr. Dorsney. 4 have to follow. 4 DEPUTY CLERK: All rise. 5 5 All right. Are there any objections to the jury (Recess was taken.) 6 6 instructions as read? COURT CLERK: All rise. 7 MR. MCANDREWS: No Your Honor. 7 THE COURT: All right. Please be seated. 8 MR. SCHUMAN: No Your Honor. 8 So we have a note from the jury sent at what I 9 THE COURT: All right. Do we have a court 9 assume was 12:04, mine says 2:04. And it says, and I quote, 10 10 security officer here? "Please provide the document that was used multiple times 11 11 (Discussion held off the record:) outlining all of the claims." 12 12 THE COURT: So someone is on their way. All I'm not a hundred percent sure which document 13 13 right. the jury is talking about. I'm just curious because do you 14 14 all actually know? So members of the jury, you just have to wait 15 15 for a minute because I have to swear the court security MR. MCANDREWS: Your Honor, we've spoken, and we 16 officer to help hold you in some safe and good place 16 don't think we know, but we've been talking about what we 17 17 until -- well, while you're deliberating. Usually they're think it might be. It's not any document that we know that 18 18 here, so I'm kind of surprised that no one is here right really exists in a clean form yet, but we're talking on 19 now. 19 agreeing on something that just sets the claims side by side 20 20 It's an amazing thing. We have 30 court plain vanilla. 21 21 security officers in the building, and many of them are THE COURT: Yeah. Okay. 22 experienced at doing this, so I'm -- all right. 22 So Mr. Schuman, do you have anything to add? 23 23 Sir, can you come forward? MR. SCHUMAN: I think what they're asking for is 24 24 a document that's not in evidence, and they may be referring DEPUTY CLERK: Do you solemnly swear that you 25 will keep this jury in some quiet and convenient place, that 25 to various demonstratives where I think both Mr. McAndrews

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1	THE JUROR: Yes.	1	Answer: No.
2	THE COURT: All right. I'm going to ask the	2	The disclosure of LB-031 in combination with the
3	Deputy Clerk to go over and get the verdict form from the	3	disclosure of Mazzoni?
4	foreperson.	4	Answer: No.
5	. All right. Could we oh, I'm sorry. Everyone	5	Has 2Wire proven by clear and convincing
6	can be seated.	6	evidence that claim 1 of the '048 patent is invalid as
7	So I'm going to ask the Deputy Clerk to publish	7	obvious in view of the disclosure of LB-031 as understood by
8	the verdict which essentially means to read it out loud.	8	a person of ordinary skill in the art?
9	It's possible that you could be asked when she's done	9	Answer: No.
10	whether you individually agree with the verdict as read, so	10	The disclosure of LB-031 in combination with the
11	please listen carefully so that you hear what she's reading.	11	disclosure of Mazzoni?
12	All right. Go ahead, please.	12	Answer: No.
13	DEPUTY CLERK: The verdict reads: Has TQ Delta	13	Has 2Wire proven by clear and convincing
14	proven by a preponderance of the evidence that 2Wire	14	evidence that the error in claim 5 of the '381 patent was
15	infringed corrected claim 5 of the '381 patent by making,	15	not clearly evident to a person of ordinary skill in the art
16	selling, and/or offering to sell the product model numbers	16	or that the correction of that error would not have been
17	5031NV, 5168NV, 5168N and 5268AC?	17	clearly evident to a person of ordinary skill in the art?
18	Answer: Yes.	18	Answer: No.
19	Has TQ Delta proven by a preponderance of the	19	Has 2Wire proven by clear and convincing
20	evidence that 2Wire infringed corrected claim 13 of the '882	20	evidence that the error in claim 13 of the '882 patent was
21	patent by making, selling, and/or offering to sell its	21	not clearly evident to a person of ordinary skill in the art
22	product model numbers 5031NV, 5168NV, 5168N, and 5268AC?	22	or that the correction of that error would not have been
23	Answer: Yes.	23	clearly evident to a person of ordinary skill in the art?
24	Has TQ Delta proven by a preponderance of the	24	Answer: No.
25	evidence that 2Wire infringed corrected claim 13 of the '882	25	THE COURT: All right. Thank you.
	884		886
1	884 patent by making, selling, and/or offering to sell its	1	886 Are there any requests from the parties?
1 2		1 2	
	patent by making, selling, and/or offering to sell its		Are there any requests from the parties?
2	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?	2	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.
3	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.	2	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.
2 3 4	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model	2 3 4 5 6	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.
2 3 4 5 6 7	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by	2 3 4 5	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come
2 3 4 5 6 7 8	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model numbers 5031NV, 5168NV, 5168N, and 5268AC?  Answer: Yes.	2 3 4 5 6 7 8	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come back within a minute to thank you personally, but if you're
2 3 4 5 6 7 8 9	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model numbers 5031NV, 5168NV, 5168N, and 5268AC?  Answer: Yes.  Has TQ Delta proven by a preponderance of the	2 3 4 5 6 7 8 9	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come back within a minute to thank you personally, but if you're in a hurry to get somewhere else, don't hang around for me.
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2 3 4 5 6 7 8 9 10	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model numbers 5031NV, 5168NV, 5168N, and 5268AC?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell the product model	2 3 4 5 6 7 8 9 10	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come back within a minute to thank you personally, but if you're in a hurry to get somewhere else, don't hang around for me. But I will be back there if you are still there.  All right. So if you want to take the jury out,
2 3 4 5 6 7 8 9 10 11	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model numbers 5031NV, 5168NV, 5168N, and 5268AC?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell the product model numbers i3812V and 3801HGV?	2 3 4 5 6 7 8 9 10 11	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come back within a minute to thank you personally, but if you're in a hurry to get somewhere else, don't hang around for me. But I will be back there if you are still there.  All right. So if you want to take the jury out, please.
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2 3 4 5 6 7 8 9 10 11 12 13 14	patent by making, selling, and/or offering to sell its product model numbers i3812V and 3801HGV?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell its product model numbers 5031NV, 5168NV, 5168N, and 5268AC?  Answer: Yes.  Has TQ Delta proven by a preponderance of the evidence that 2Wire infringed claim 1 of the '048 patent by making, selling, and/or offering to sell the product model numbers i3812V and 3801HGV?  Answer: Yes.  Has 2Wire proven by clear and convincing	2 3 4 5 6 7 8 9 10 11 12 13	Are there any requests from the parties?  MR. SCHUMAN: No, Your Honor.  MR. MCANDREWS: No, Your Honor.  THE COURT: All right. So members of the jury, that concludes your service in this case. And so in a moment, I'm going to excuse you, and you'll be taken out.  I know it's late in the day. I plan to come back within a minute to thank you personally, but if you're in a hurry to get somewhere else, don't hang around for me. But I will be back there if you are still there.  All right. So if you want to take the jury out, please.  (Jury leaving the courtroom at 3:52 p.m.) THE COURT: All right. So I will enter a trial
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